

Title (en)

Camera lens unit in a portable wireless terminal

Title (de)

Kameraobjektiveinheit für ein tragbares schnurloses Terminal

Title (fr)

Élément optique de caméra pour terminal portable sans fil

Publication

EP 1460836 A3 20090826 (EN)

Application

EP 04006718 A 20040319

Priority

- KR 20030017055 A 20030319
- KR 20040015396 A 20040308

Abstract (en)

[origin: EP1460836A2] A camera lens unit in a portable wireless terminal is disclosed, in which the terminal has a main body and a folder. The main body has side arms facing each other at both upper sides, and the folder has a center hinge arm with an opening at a predetermined position, hinge-combined between the side hinge arms. In the camera lens unit, a hinge dummy has an end fixed to one of the side hinge arms and is inserted from an end of the center hinge arm to an end of the opening, for rotatable engagement with the center hinge arm. A camera holder is rotatably engaged with the other end of the hinge dummy. A camera lens has an end fixed to the camera holder, is disposed in the opening, and rotates with the camera holder about a hinge axis, so that an angle of view is controlled.

IPC 8 full level

H04N 5/225 (2006.01)

CPC (source: EP US)

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Citation (search report)

- [XY] WO 02082674 A1 20021017 - M2SYS CO LTD [KR], et al
- [Y] WO 02091604 A2 20021114 - PHOENIX KOREA CO LTD [KR], et al
- [A] EP 1267576 A2 20021218 - LG ELECTRONICS INC [KR]
- [Y] US 2001036845 A1 20011101 - PARK JUN-SANG [KR]
- [Y] WO 02104008 A1 20021227 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
- [A] US 5832080 A 19981103 - BEUTLER SCOTT DAVID [US], et al
- [A] US 2003044001 A1 20030306 - KIM YONG-JAE [KR]
- [Y] JP 2002112081 A 20020412 - MITSUBISHI ELECTRIC CORP

Cited by

CN109547606A; GB2518788A; US7140073B2; US11356613B2; WO2013186574A3

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